

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

5783431

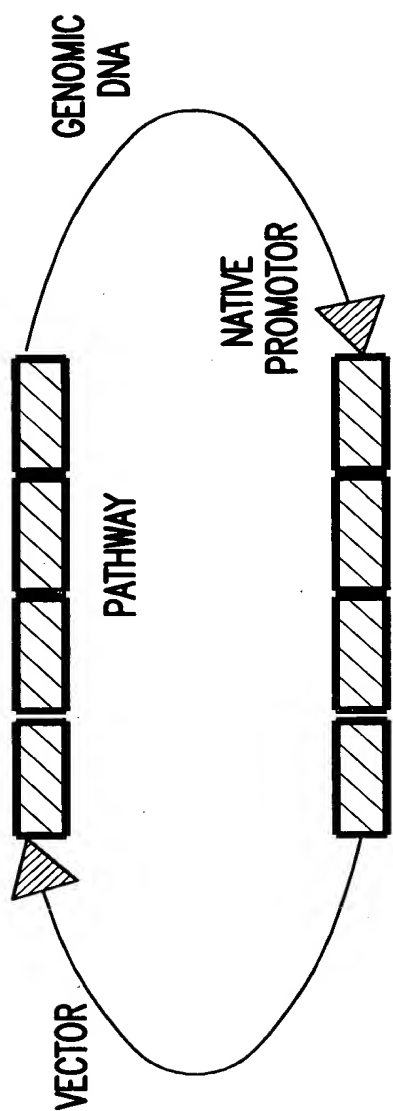


FIG.1

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

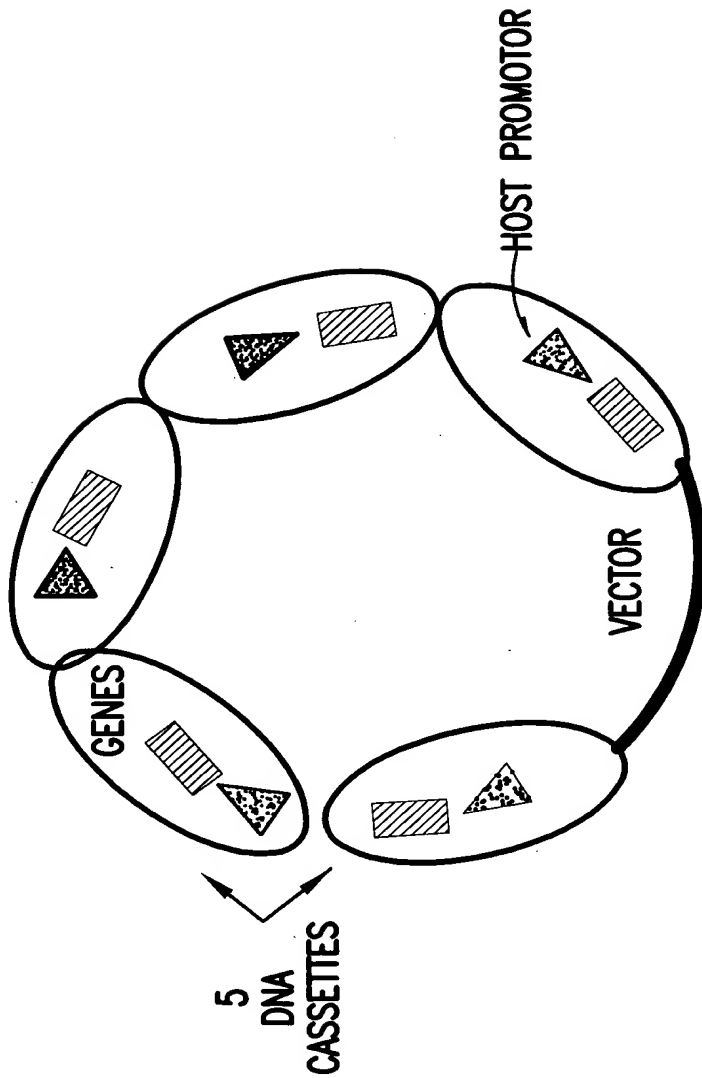


FIG.2

2  
bwi

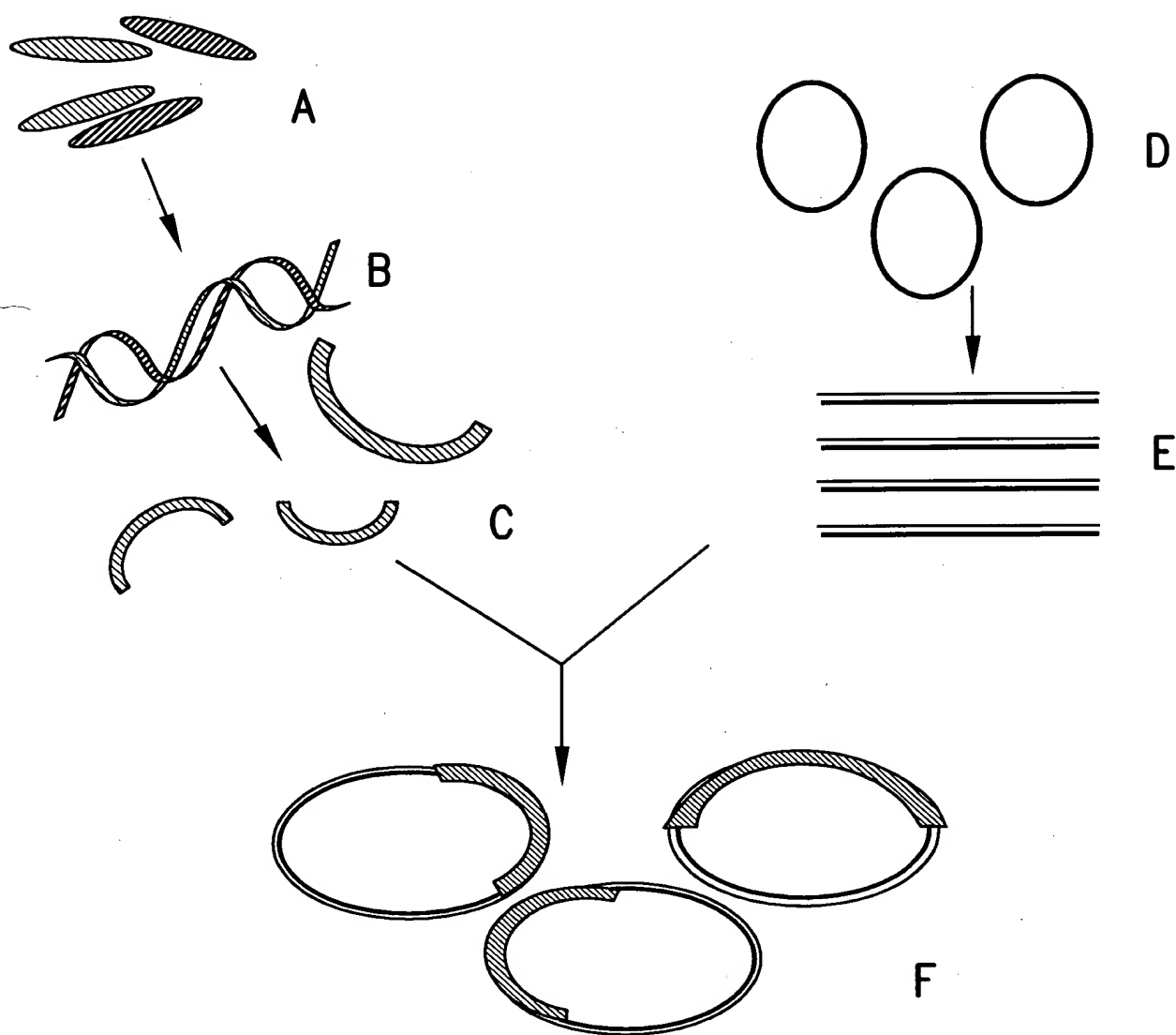
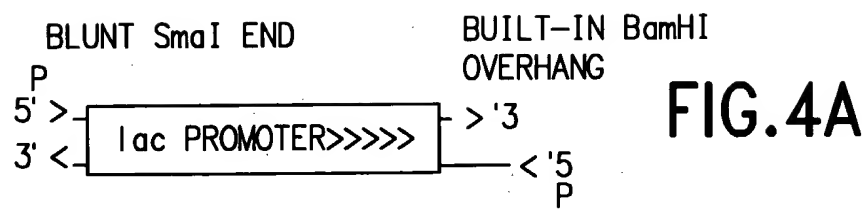


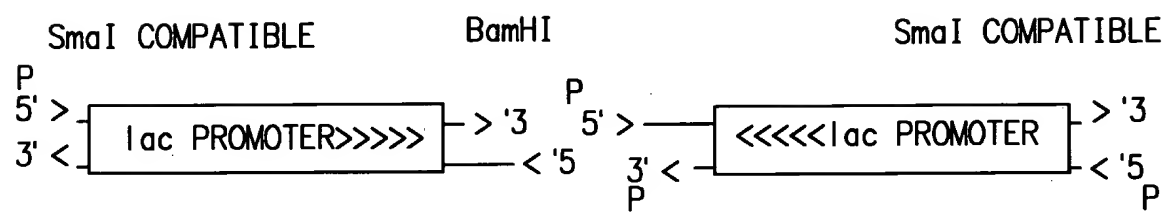
FIG.3

128  
6/2/01

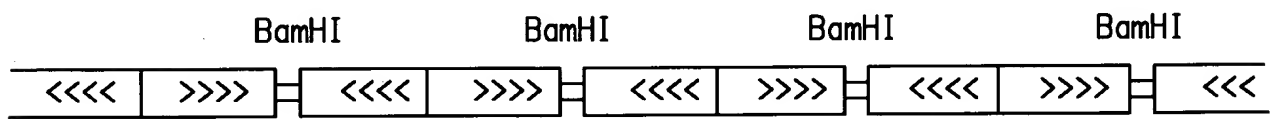
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



**FIG.4A**



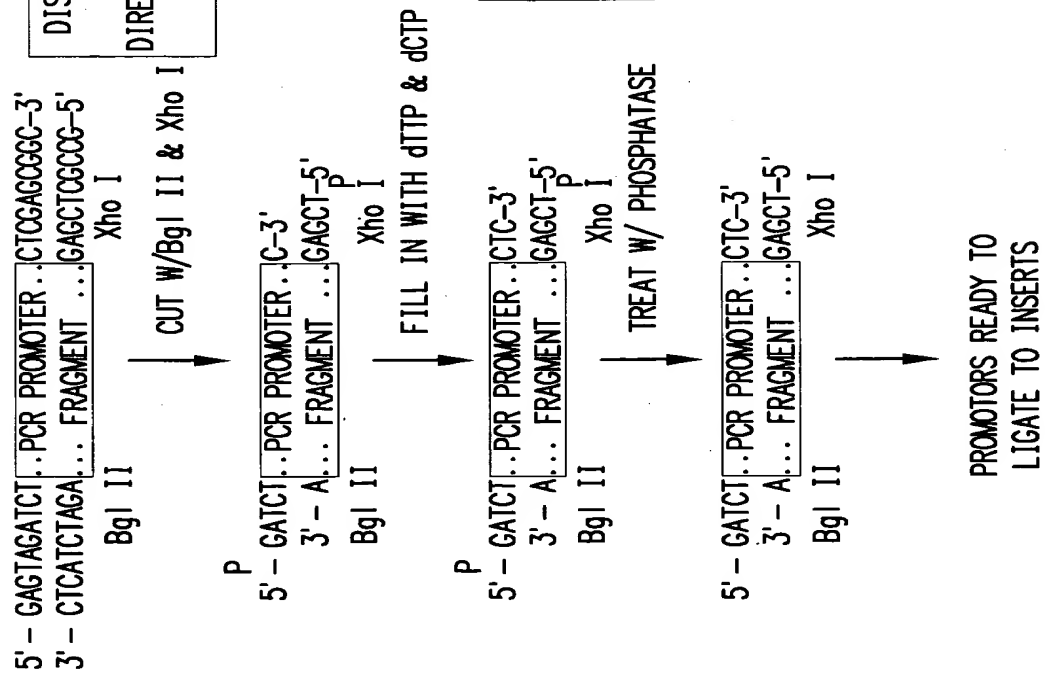
**FIG.4B**



**FIG.4C**

4. over

### PROMOTERS FOR cDNA & gDNA INSERTS



DISSIMILAR ENZYMES ON PROMOTER &  
TERMINATOR FRAGMENTS ASSURE  
DIRECTIONAL CLONING OF cDNA INSERTS,  
(FOR EXAMPLE Xho I & Xma I)

ENZYME CLEAVAGE GENERATES  
DEFINED ENDS, LEAVING  
PROTECTED 3' BamHI SITE

KLENOW FILL IN OF  
PROMOTERS & TERMINATORS  
FRAGMENTS MAKE THEM INCAPABLE  
OF INTER/INTRA LIGATION

PHOSPHATASE TREATMENT  
CRATES EQUAL STRENGTH  
LIGATION PARTNERS

### TERMINATORS FOR cDNA INSERTS

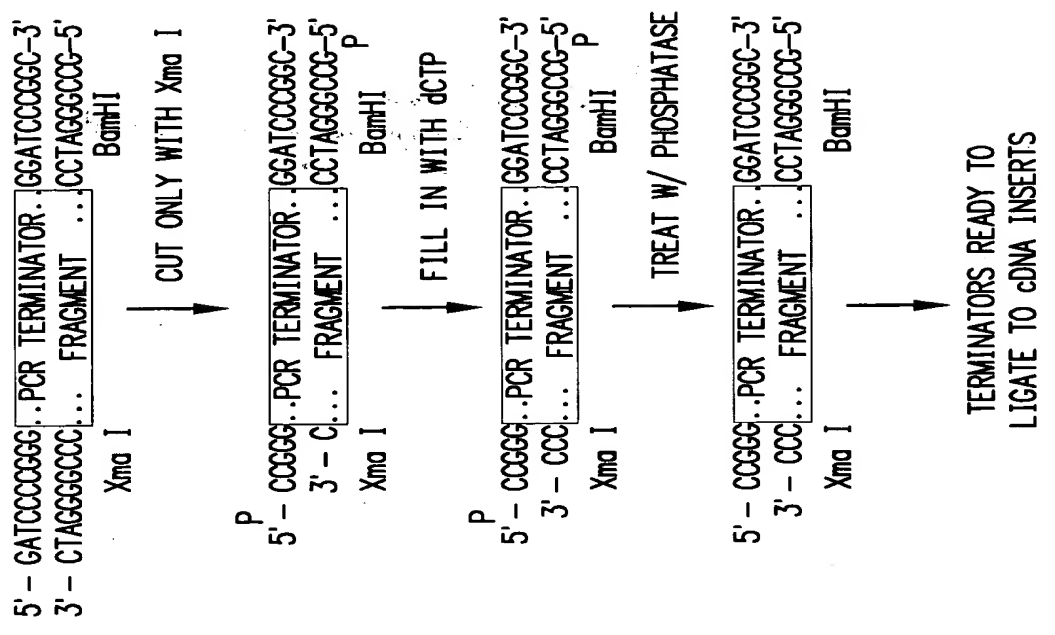


FIG.5A

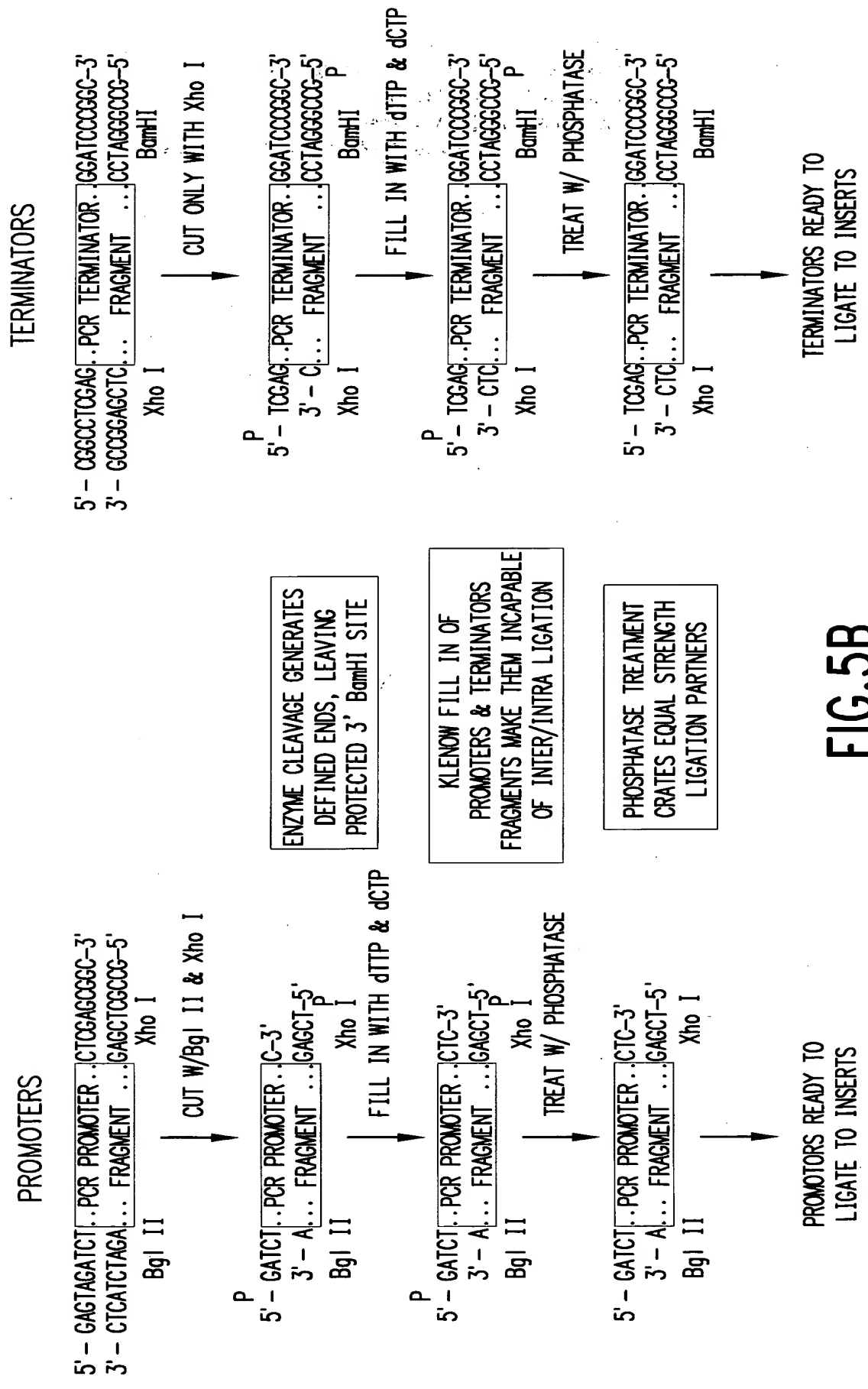


FIG.5B

6

FIRST STRAND cDNA SYNTHESIS PREPARED WITH Not I CONTAINING poly-dT PRIMER AND 5'-M<sub>1</sub>CTP, AFTER 2nd STRAND SYNTHESIS, MODIFIED BamHI ADAPTERS ARE ADDED & cDNA IS DIGESTED WITH Not I, GIVING DIRECTIONAL cDNA GENE INSERTS

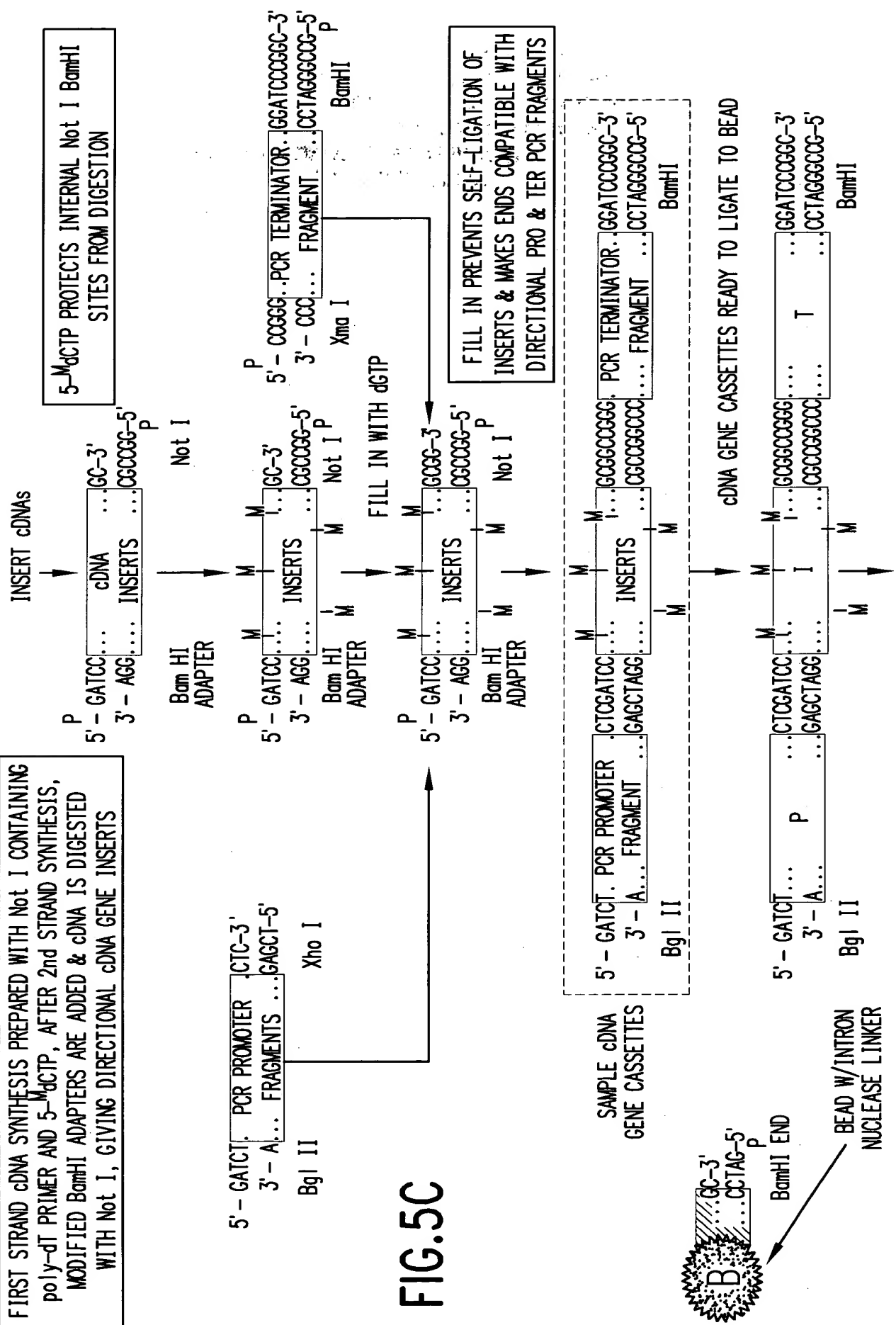


FIG.5C

Handwritten signature/initials.

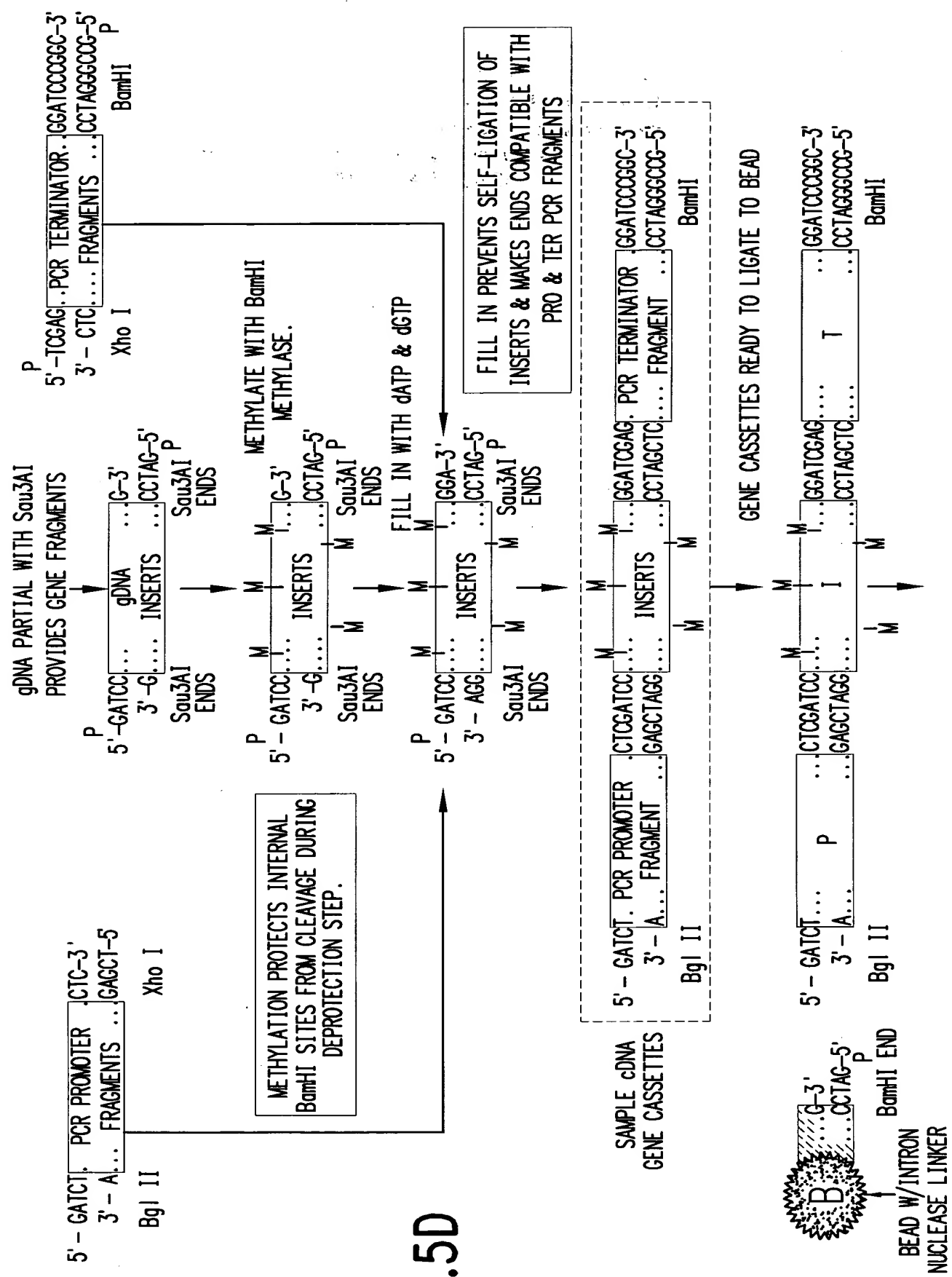


FIG.5D





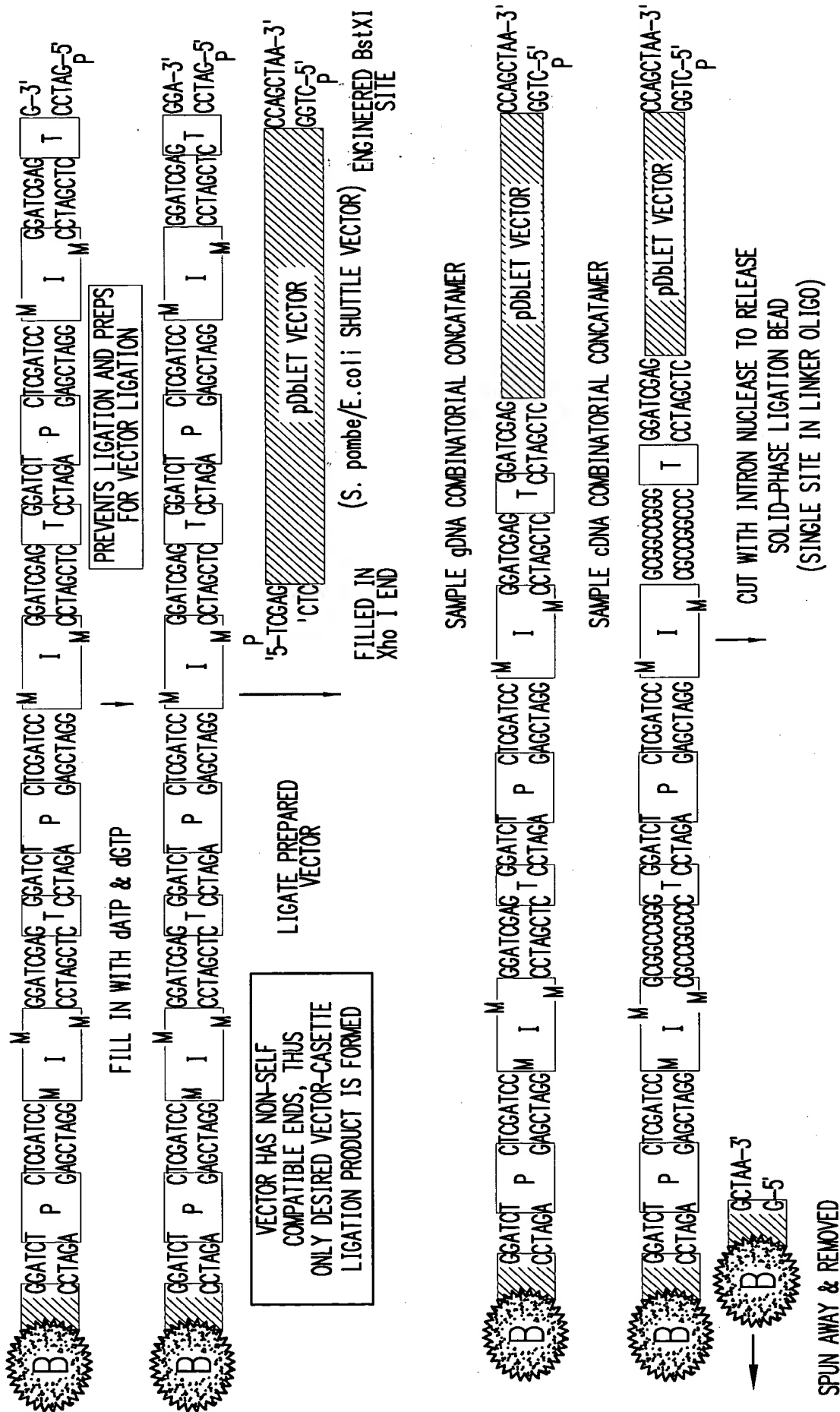
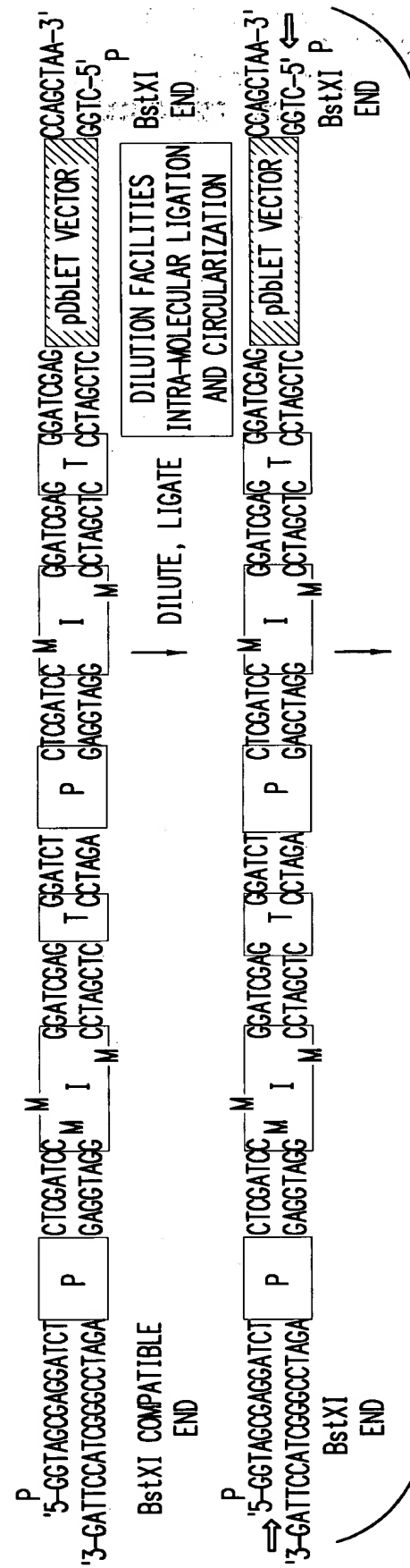


FIG.5F



# TRANSFORM *S. pombe* AND/OR *E. coli* AND SCREEN RESULTING CLONES FOR COMBINATORIAL ACTIVITIES

**FIG. 5G**

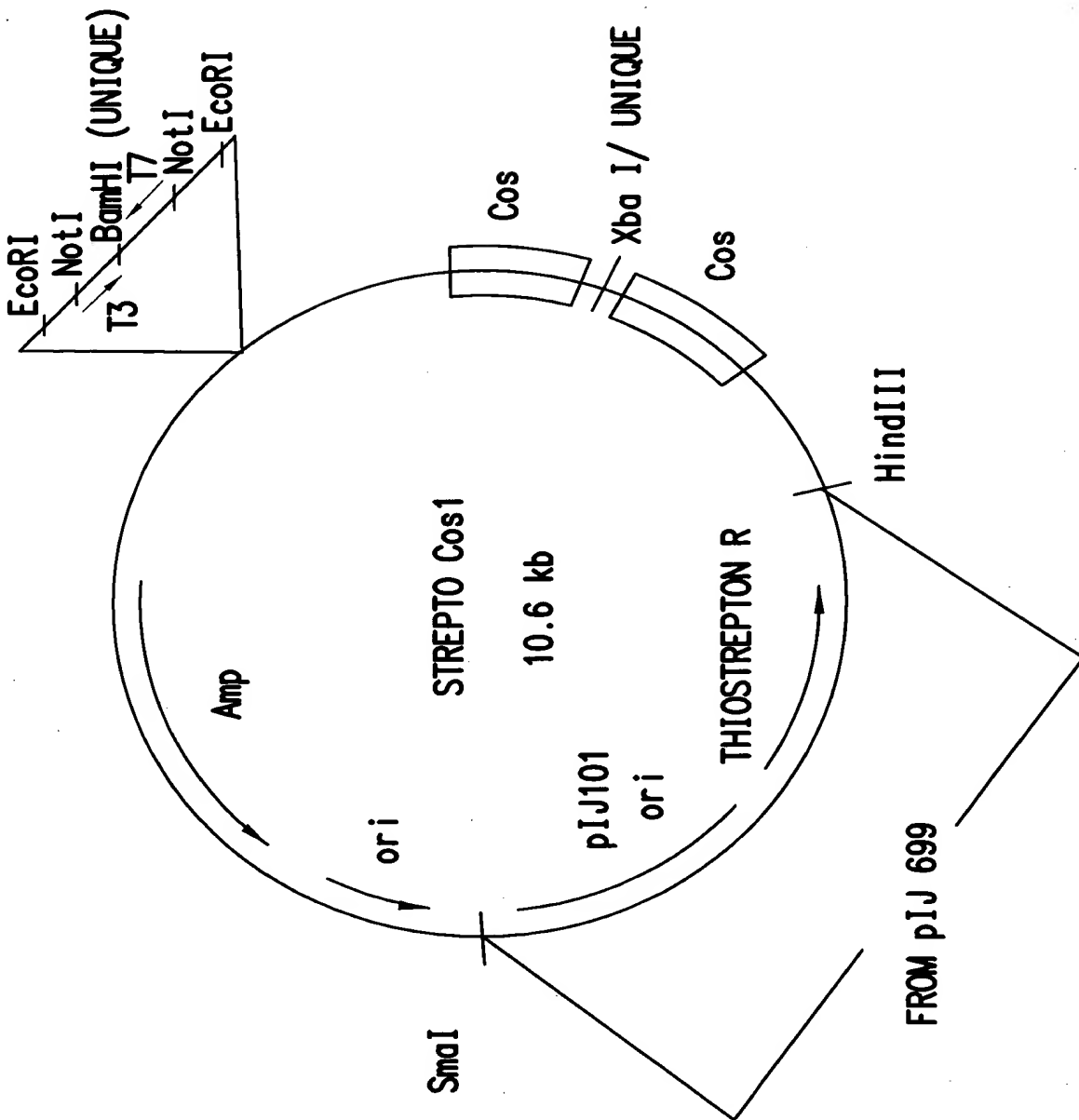
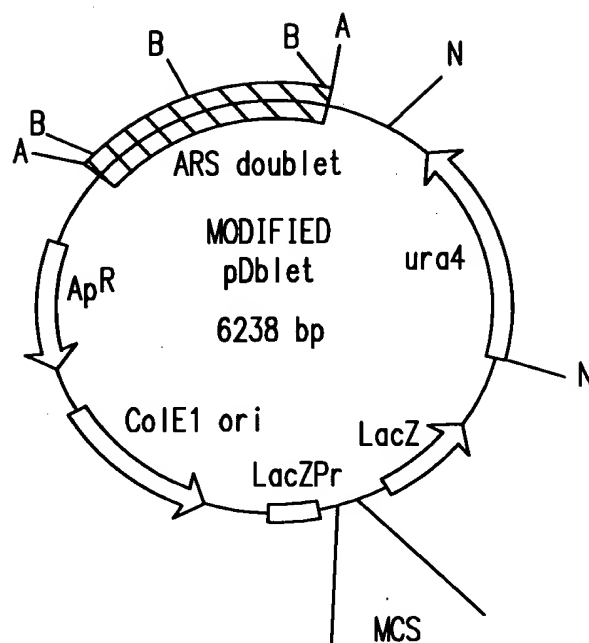


FIG.6A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



MCS = SacI-NcoI-BstXI-NotI-Xba...

FIG.6B

5' CCTAGCCATGGCCACCTAACTGGGATCGC 3'  
 3' TCGAGGATCGGTACCGGTGGATTGACCCTAGCGCCGG 5'  
 SacI      NcoI      BstXI      NotI END

FIG.6C

13

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

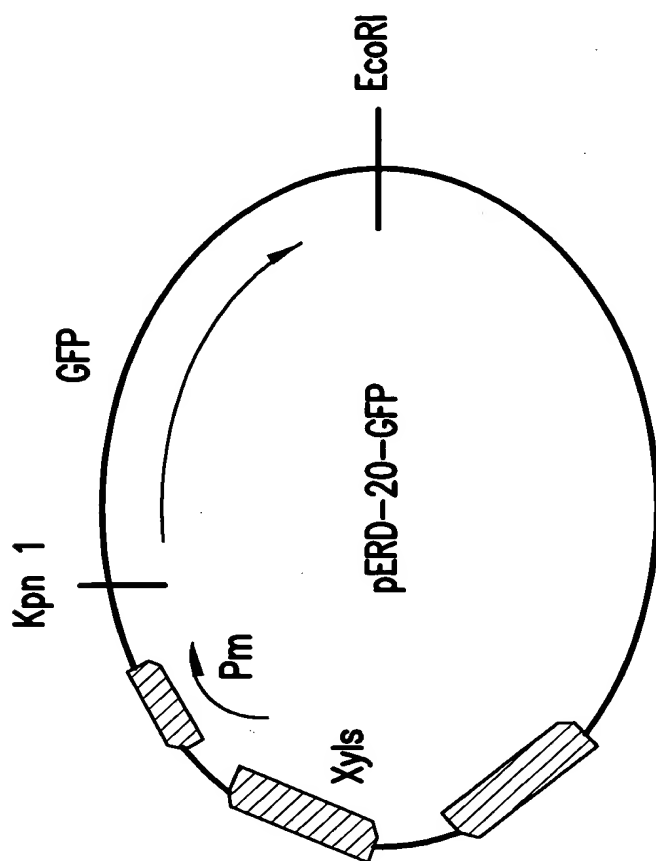


FIG.7

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

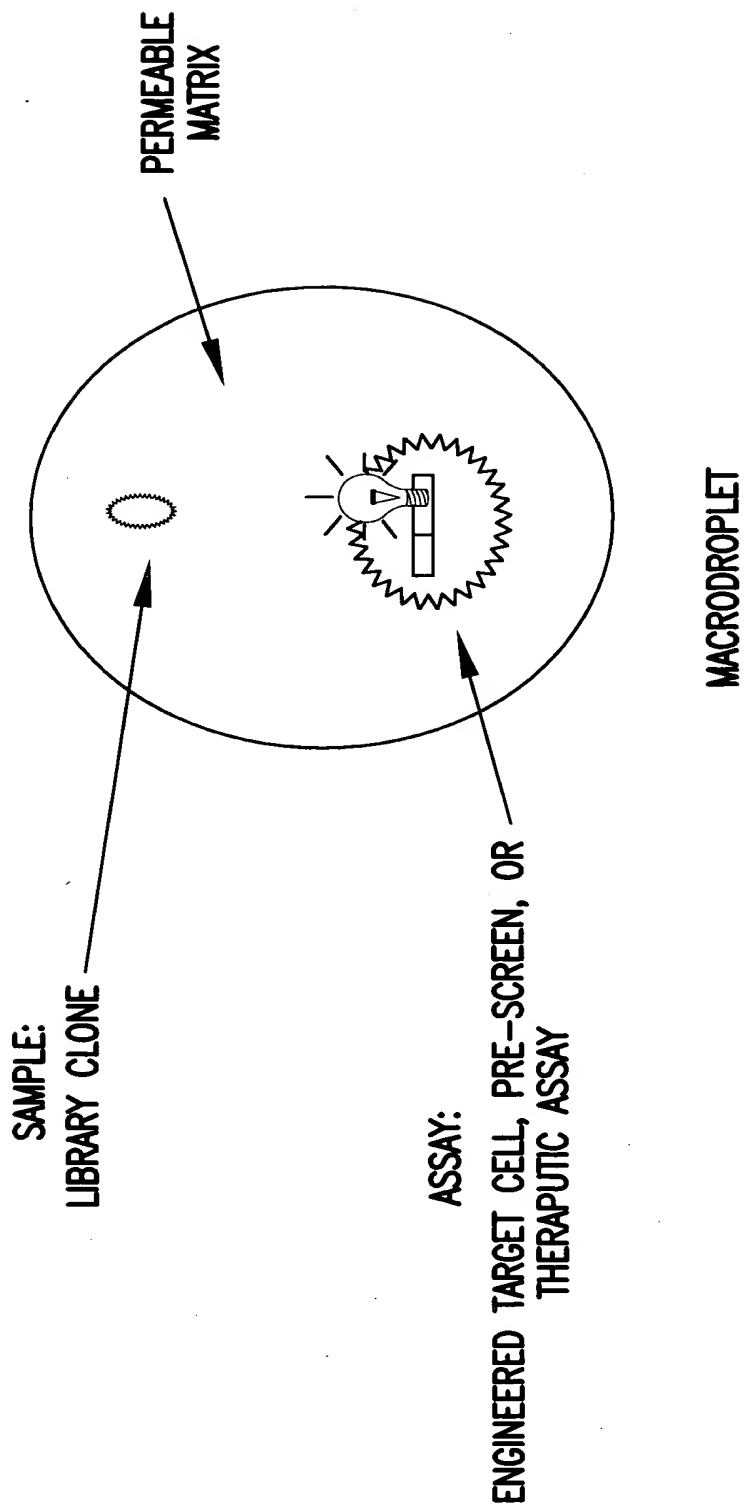
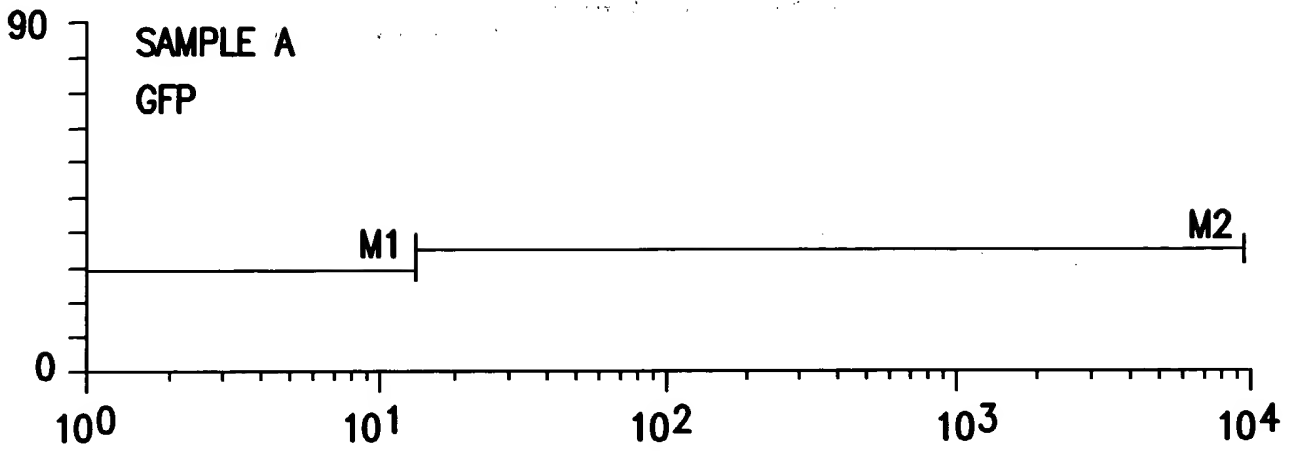
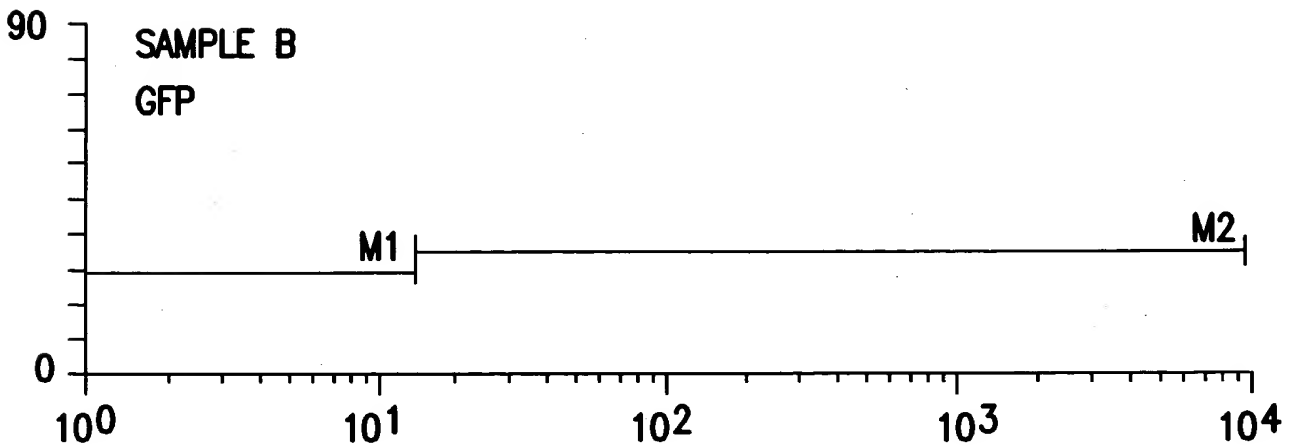


FIG.8

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



**FIG.9A**



**FIG.9B**

16000



POSITION	
CXC-AMN20 (1)	-----NSHF I I T T Q G V L V F D S G S S E H I G N A (23)
ACTINORHODIN DEHYDRASE 1	M T V E V R E V A E G V Y A Y E Q A P G G W C V S N A G I V V G G D G A L V V D T L S T I P R A R R 50
CXC-AMN20 (24)	I I A A V K R V T T E Q P I R W V V N S H S H A D H W L G N A A L A K L G A E L I S T S L S A E T M K (73)
ACTINORHODIN DEHYDRASE 51	L A E W V D K L A A G P G R T V V N T H F H G D H A F G N Q V F A P - G T R I I A H E D M R S A M V 99
CXC-AMN20 (74)	S D G P V D V K A F F N M T K G A T G E S T L V I P T S I T L H Q Q T R T F G D T E V E F V F A N D (123)
ACTINORHODIN DEHYDRASE 100	T T G L A L T G - L W P - - R V D W G E I E L R P P N V T F R D R L L T L H V G E R Q V E L T C V G P 146
CXC-AMN20 (124)	G H S P G D V M L W L P K Q R I L I G G D V V N S N F M P I M T P R G N I T Q L I S V L K E V E Q L (173)
ACTINORHODIN DEHYDRASE 147	A H T D H D V V V W L P E E R V L F A G D V V M S G V T P - F A L F G S V A G T L A A L D R L A E L 195
CXC-AMN20 (174)	S P L V L T G H G E N T S V K S V S R D I Q F L T Y A S N A V H E A L V K G T T P A K I Q A S L Q (223)
ACTINORHODIN DEHYDRASE 196	E P E V V V G G H G P V A G P E V I D A N R D Y L R W V Q R L A A D A V D R R L T P L Q A A R R A D 245
CXC-AMN20 (224)	A T L R T K F G K A Y Q D F D T S I S Y L L E M M I D K Q R L Q F S P T I - - - - - (264)
ACTINORHODIN DEHYDRASE 246	L G A F A G L L D A E R L V A N L H R A H E E L L G G H V R D A M E I F A E L V A Y N G G Q L P T C 295
CXC-AMN20 - - -	
ACTINORHODIN DEHYDRASE 296	L A *

FIG.10

157 6261

APPROVED	O.C. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

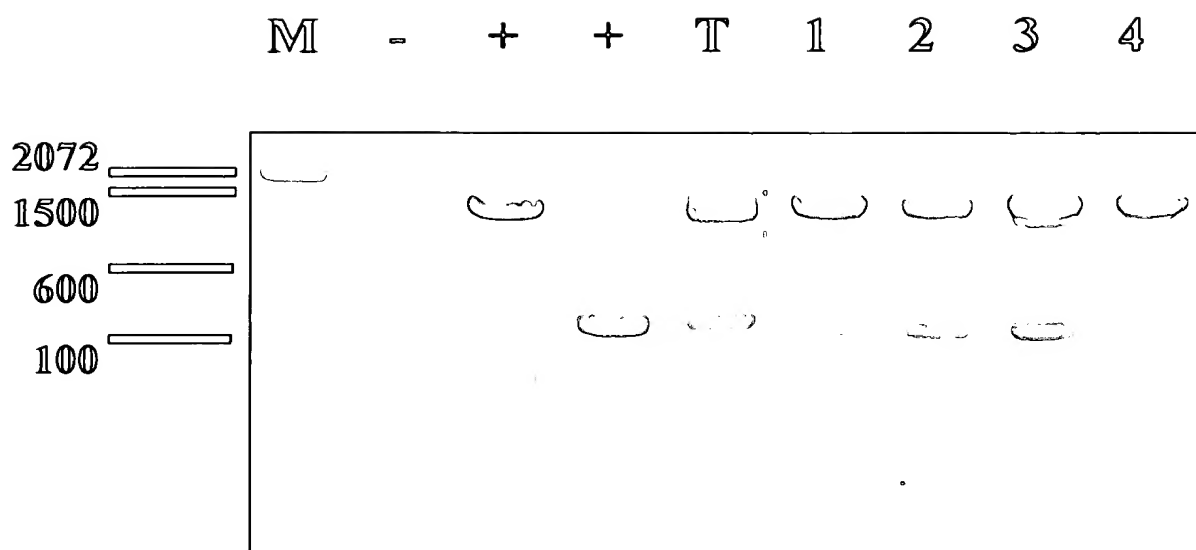


FIG.11

over 18

APPROVED	O.S. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

# POOL 1

M - + + + 1 2 3 4 5 6 7 8 9 10

2072  
1500  
600  
100

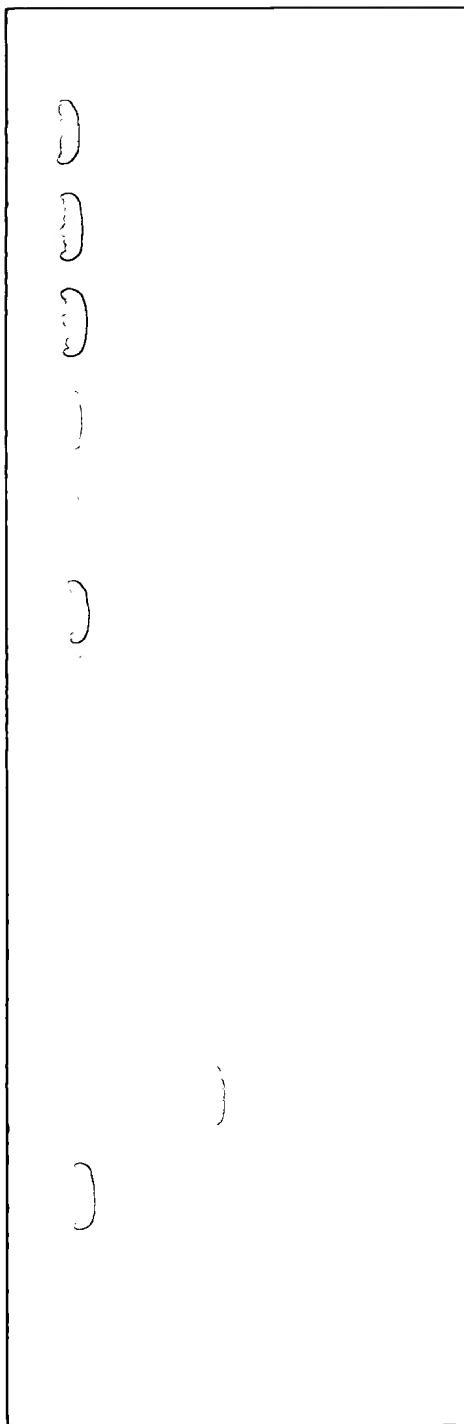


FIG.12A

APPROVED	D.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

# POOL 2

M - + + + 12 13 14 15 16 17 18 19 20

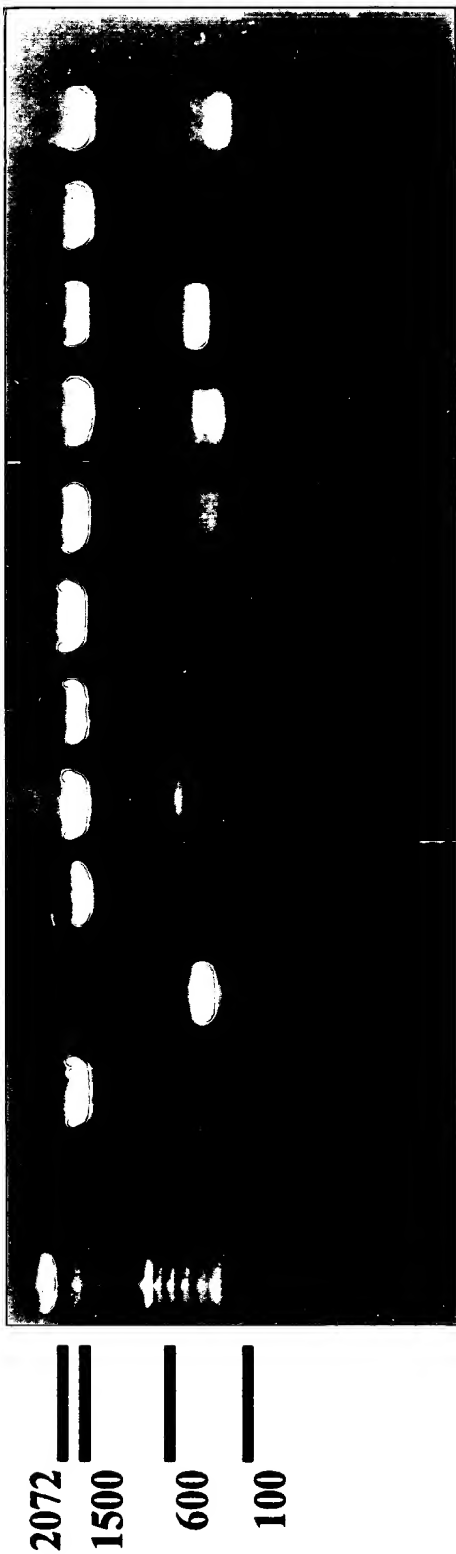


FIG.12B

APPROVED	D.S. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

# POOL 3

M - + + + 21 22 23 27 30 31 32 33 34 35

2072  
1500  
600  
100

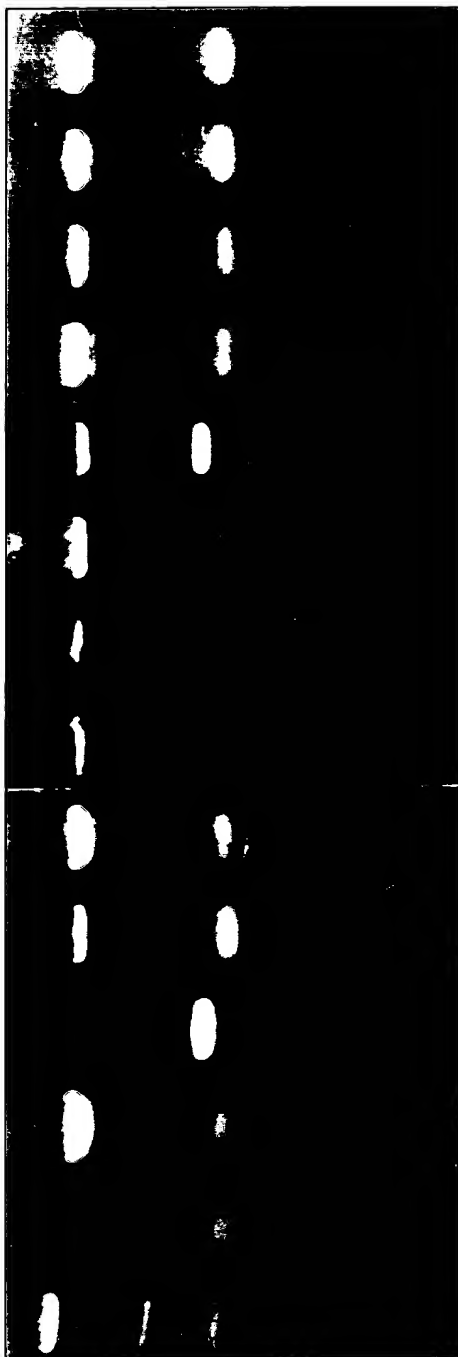


FIG.12C

*Handwritten signature and date*

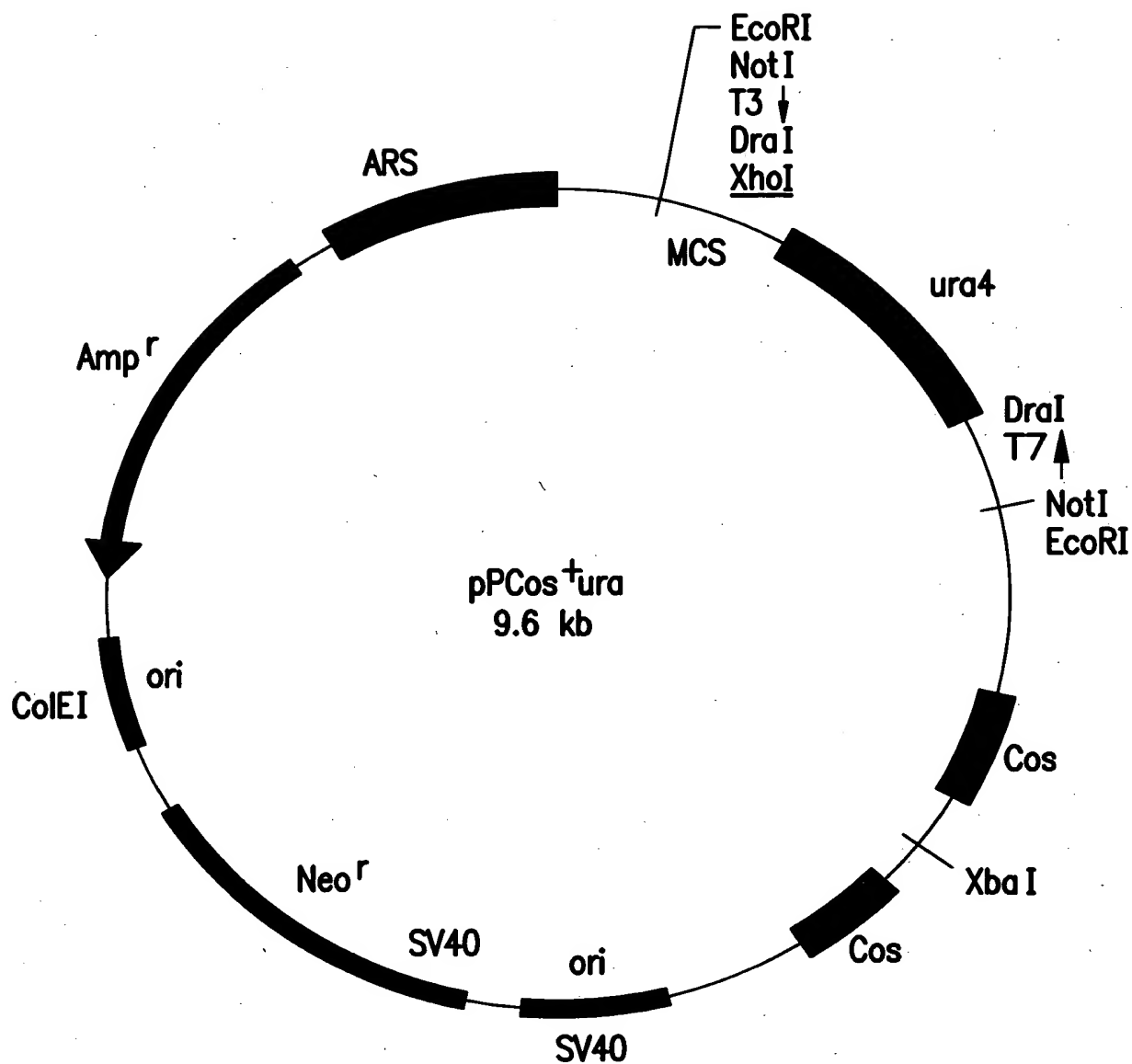


FIG.13

22

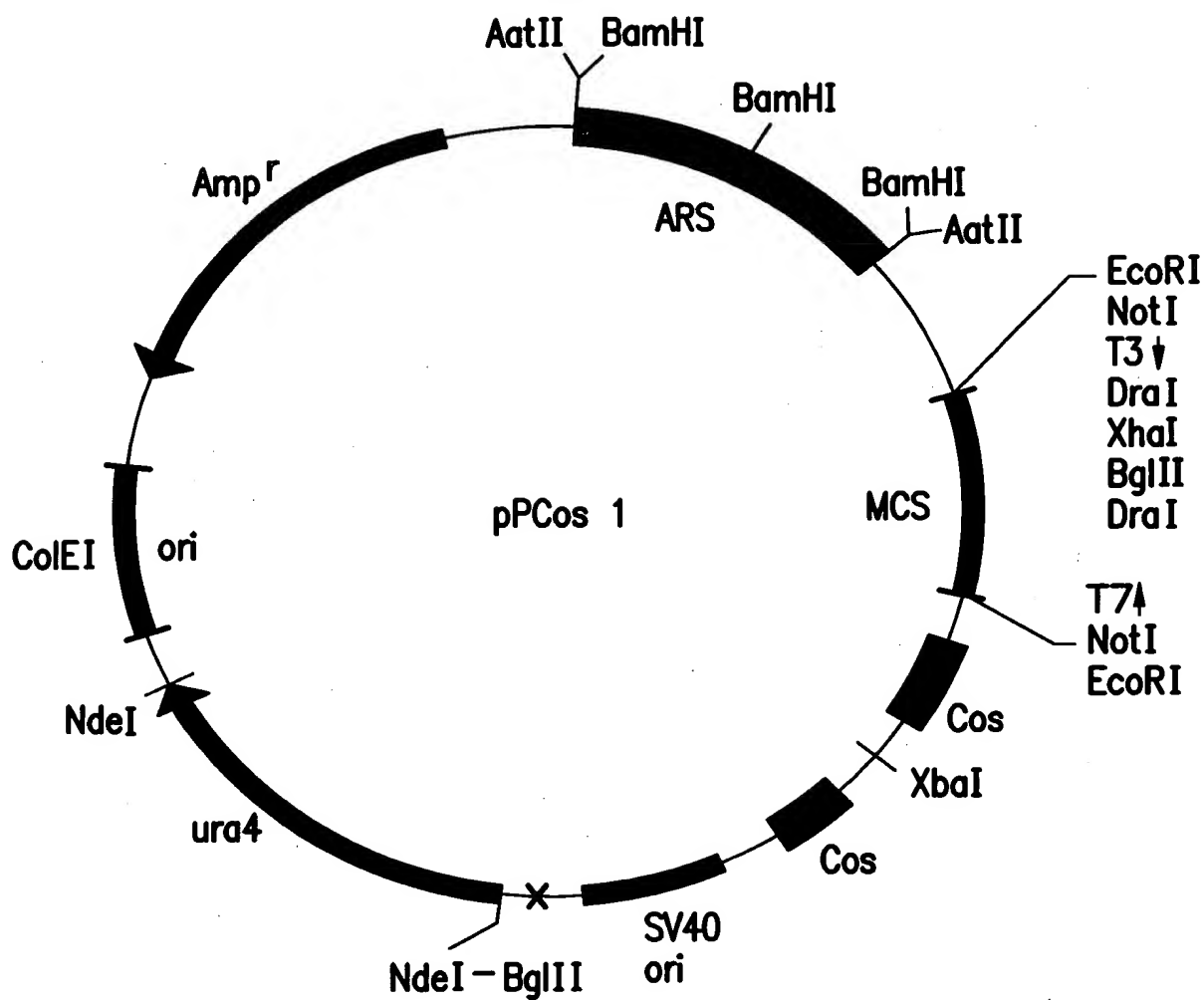


FIG.14

23